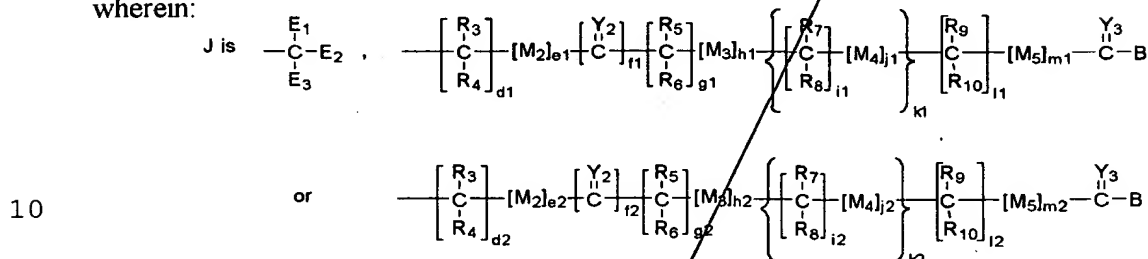


## ABSTRACT

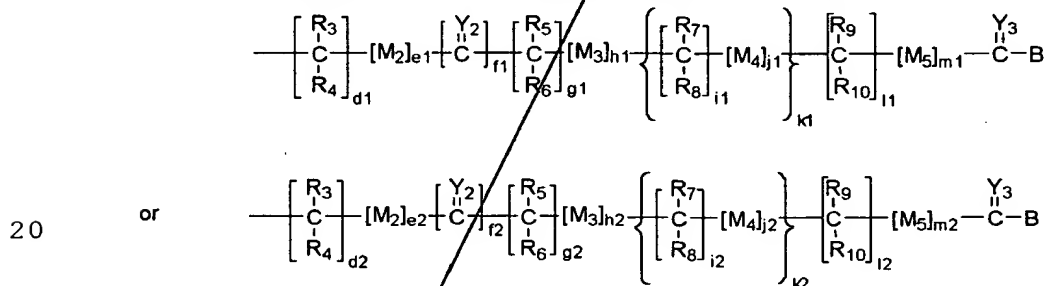
The present invention is directed to polymeric-prodrug transport forms of the formula:



wherein:

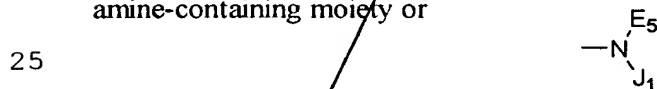


$E_{1-4}$  are independently selected from the group consisting of hydrogen,  $C_{1-6}$  alkyls,  $C_{3-12}$  branched alkyls,  $C_{3-8}$  cycloalkyls,  $C_{1-6}$  substituted alkyls,  $C_{3-8}$  substituted cycloalkyls, aryls, substituted aryls, aralkyls,  $C_{1-6}$  heteroalkyls, substituted  $C_{1-6}$  heteroalkyls,  $C_{1-6}$  alkoxy, phenoxy,  $C_{1-6}$  heteroalkoxy,



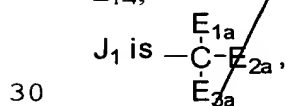
and at least one of  $E_{1-4}$  includes a B moiety;

B is a leaving group, OH, a residue of a hydroxyl-containing moiety, a residue of an amine-containing moiety or

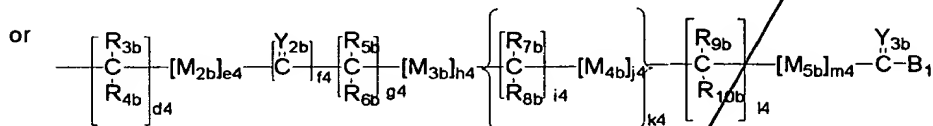
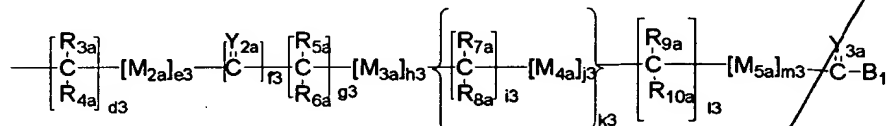


wherein  $E_5$  is independently selected from the same group which defines

$E_{1-4}$ ;



$E_{1a-3a}$  are independently selected from the group consisting of hydrogen,  $C_{1-6}$  alkyls,  $C_{3-12}$  branched alkyls,  $C_{3-8}$  cycloalkyls,  $C_{1-6}$  substituted alkyls,  $C_{3-8}$  substituted cycloalkyls, aryls, substituted aryls, aralkyls,  $C_{1-6}$  heteroalkyls, substituted  $C_{1-6}$  heteroalkyls,  $C_{1-6}$  alkoxy, phenoxy,  $C_{1-6}$  heteroalkoxy,

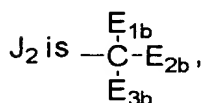


wherein  $B_1$  is a leaving group, OH, a residue of a hydroxyl-containing moiety or a residue of an amine-containing moiety or

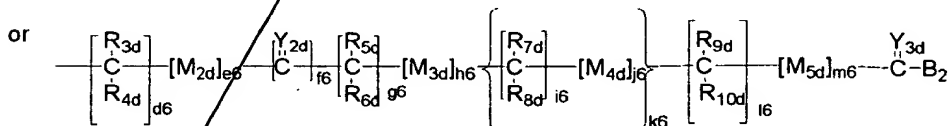
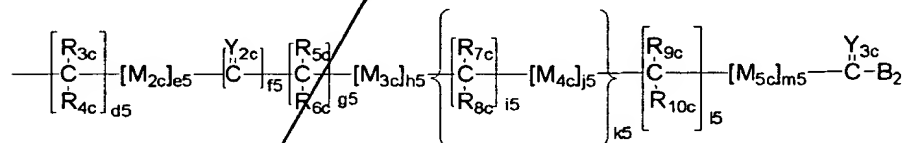


wherein  $E_6$  is independently selected from the same group which defines

$E_{1-4}$ ;



wherein  $E_{1b-3b}$  are independently selected from the group consisting of hydrogen,  $C_{1-6}$  alkyls,  $C_{3-12}$  branched alkyls,  $C_{3-8}$  cycloalkyls,  $C_{1-6}$  substituted alkyls,  $C_{3-8}$  substituted cycloalkyls, aryls, substituted aryls, aralkyls,  $C_{1-6}$  heteroalkyls, substituted  $C_{1-6}$  heteroalkyls,  $C_{1-6}$  alkoxy, phenoxy,  $C_{1-6}$  heteroalkoxy,



wherein  $B_2$  is a leaving group, OH, a residue of a hydroxyl-containing moiety or a residue of an amine-containing moiety;

G is a polymeric residue;

$Y_{1-3}$ ,  $Y_{2a-d}$  and  $Y_{3a-d}$  are each independently O, S or  $NR_{11a}$

$M_{1-4}$ ,  $M_{2a-2d}$ ,  $M_{3a-3d}$ , and  $M_{4a-4d}$  are each independently O, S or  $NR_{11b}$ ;

$M_5$  and  $M_{5a-d}$  are each independently X or Q,

5 wherein X is an electron withdrawing group and Q is a moiety containing a free electron pair positioned three to six atoms from  $C(=Y_3)$  or  $C(=Y_{3a-d})$ ;

$R_{1-10}$ ,  $R_{1a-11a}$ ,  $R_{1b-11b}$ ,  $R_{1c-10c}$  and  $R_{1d-10d}$  are each independently selected from the group consisting of hydrogen,  $C_{1-6}$  alkyls,  $C_{3-12}$  branched alkyls,  $C_{3-8}$  cycloalkyls,  $C_{1-6}$  substituted alkyls,  $C_{3-8}$  substituted cycloalkyls, aryls, substituted aryls, aralkyls,

10  $C_{1-6}$  heteroalkyls, substituted  $C_{1-6}$  heteroalkyls,  $C_{1-6}$  alkoxy, phenoxy and

$C_{1-6}$  heteroalkoxy; and

$a, b, c, d1-d6, e1-e6, f1-f6, g1-g6, h1-h6, i1-i6, j1-j6, k1-k6, l1-l6, m1-m6$  are each independently zero or a positive integer.

15